

AMENDMENTS TO THE CLAIMS

Claim 1. (currently amended) A synchronicity detection apparatus for detecting a timing of a spread code whose prescribed having a certain length, which is included in a reception signal, comprising:

correlation coefficient generation means for dividing said spread code advancing a phase of said spread code every a certain period, to generate a replica of said spread code; ~~and,~~

a matched filter which performs detection of correlation values of said replica code generated by said correlation coefficient generation means and said reception signal every said certain period; and

a pseudo-random sequence generation means which generates a pseudo-random sequence from an initial value after supplying said pseudo-random sequence generated as said replica code.

Claim 2. (original) The synchronicity detection apparatus according to claim 1, further comprising:

a memory which cyclically adds said correlation values detected by said matched filter every said certain period to store said added correlation values therein; and,

means for detecting correlation energy from memory data in said memory means.

Claim 3. (original) The synchronicity detection apparatus according to claim 1, further comprising:

adding means which delays an output of the said matched filter by said certain

period to generate a delayed signal, and adds said delayed signal and the said output of said matched filter, and

means for detecting a correlation value from the signal added by said adding means.

Claim 4. (canceled)

Claim 5. (original) The synchronicity detection apparatus according to claim 1, wherein said correlation coefficient generation means comprises:

a register which generates a certain pseudo-random sequence;

operation means which phase shifts a phase of said pseudo-random sequence generated by said register, and

means for supplying said phase-shifted pseudo-random sequence outputted by said operation means and said pseudo-random sequence outputted by said aforementioned register as said replica code.

Claim 6. (currently amended) The synchronicity detection apparatus according to claim 1, wherein said correlation coefficient generation means comprises ~~spread~~replica code generation means for generating one unit of a second replica ~~spread~~ code from one unit of a first inputted replica ~~spread~~ code and generates one unit of a next replica ~~spread~~ code using one unit of said second replica ~~spread~~ code.

Claim 7. (currently amended) The synchronicity detection apparatus according to

claim 1, wherein one unit of said spread code is each generated by repeating ~~rate~~latch operations each time an operation clock of said correlation coefficient generation means is supplied predetermined number of times.